

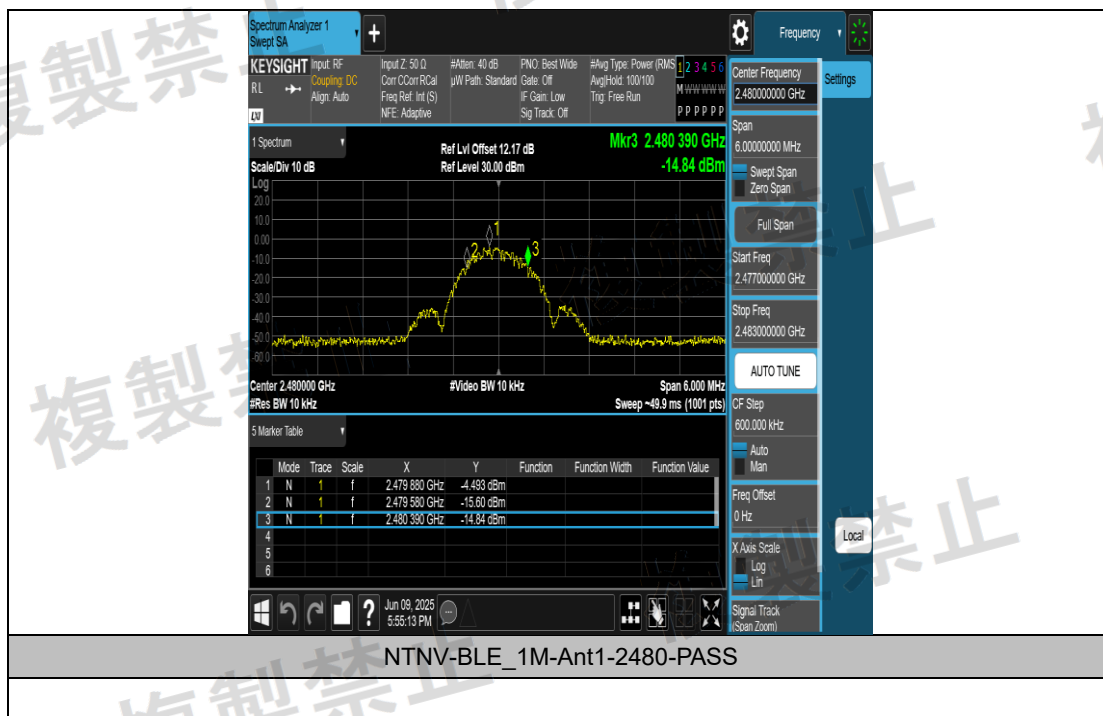
Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	2401.967	-13.73855	±50	PASS
NTNV	BLE_1M	Ant1	2440	2440.003	1.22951	±50	PASS
NTNV	BLE_1M	Ant1	2480	2479.985	-6.04839	±50	PASS

Test Graphs





Appendix B: Antenna Power

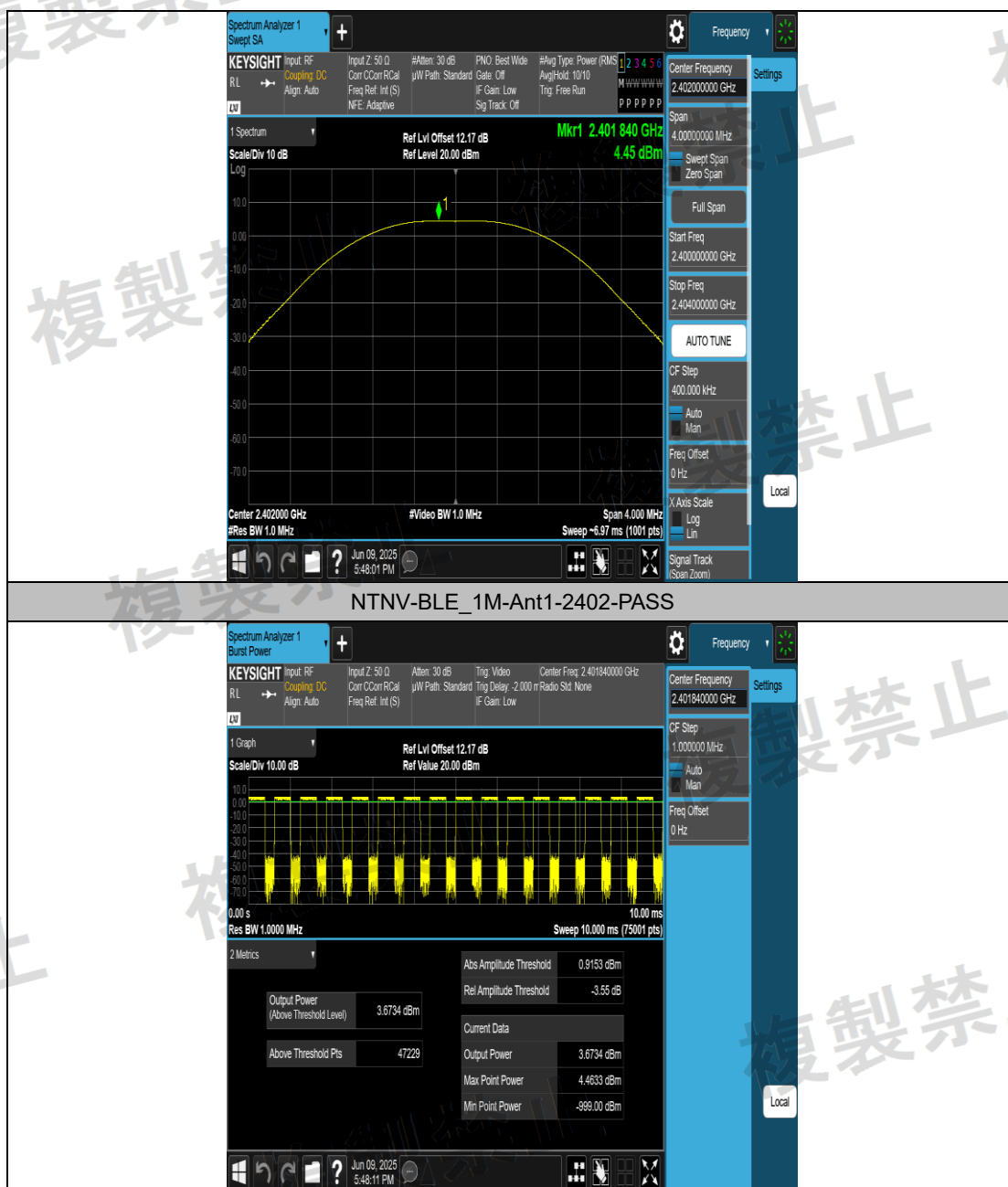
Test Result

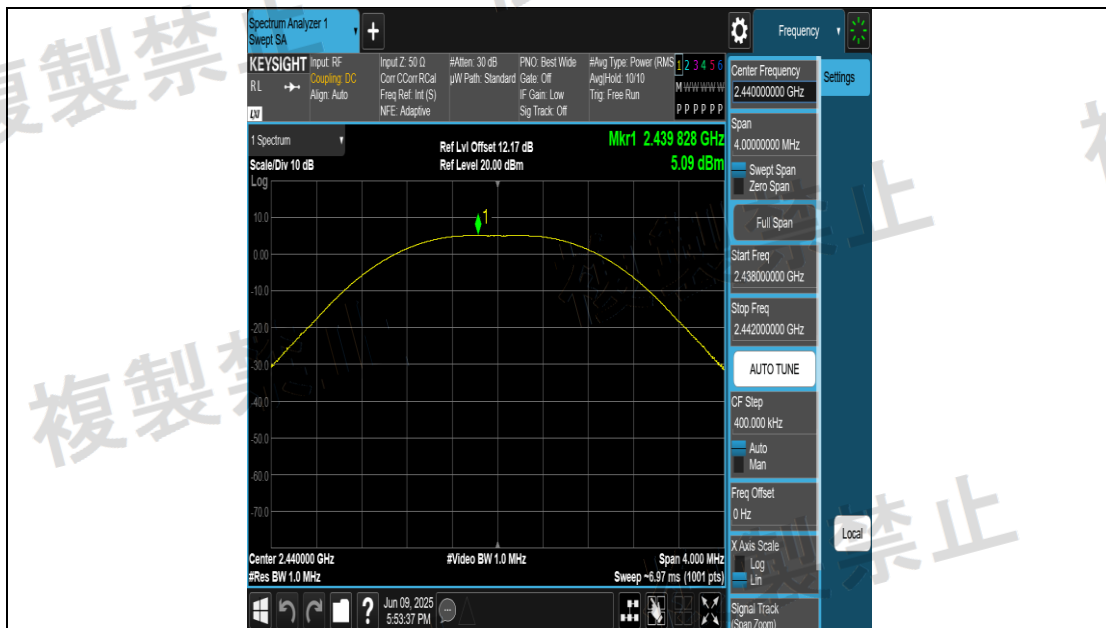
TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	3.67	2.3281	≤10	PASS
NTNV	BLE_1M	Ant1	2440	4.29	2.6853	≤10	PASS
NTNV	BLE_1M	Ant1	2480	4.62	2.8973	≤10	PASS

Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	2.3281	3	-22	-80 to +20	PASS
NTNV	BLE_1M	Ant1	2440	2.6853	3	-10	-80 to +20	PASS
NTNV	BLE_1M	Ant1	2480	2.8973	3	-3	-80 to +20	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	3.67	7.71	≤12.14	PASS
NTNV	BLE_1M	Ant1	2440	4.29	7.79	≤12.14	PASS
NTNV	BLE_1M	Ant1	2480	4.62	8.12	≤12.14	PASS

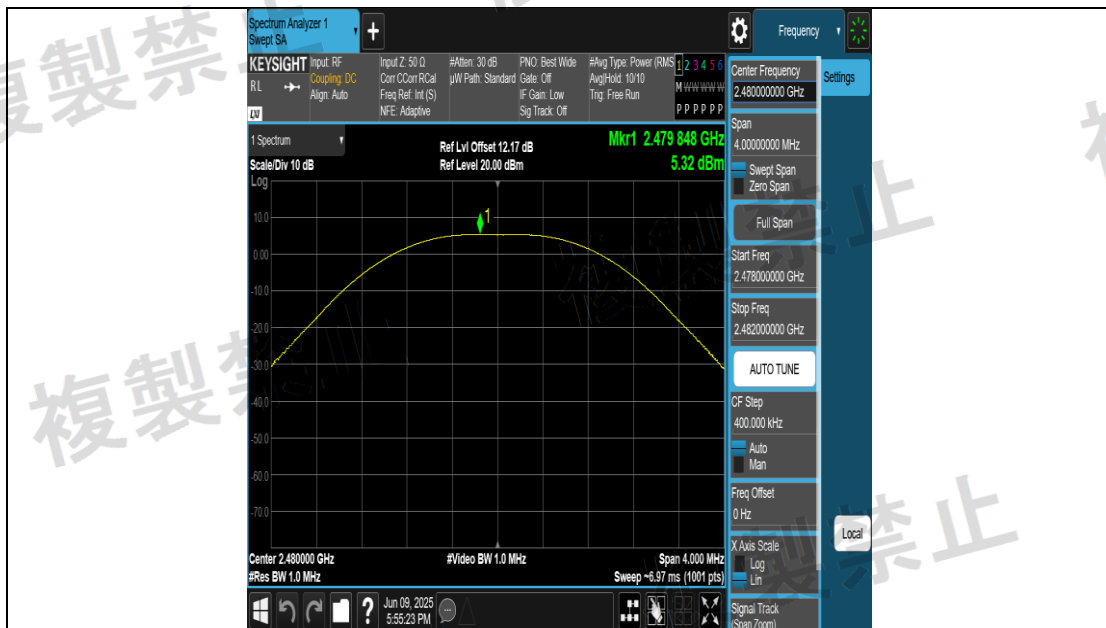
Test Graphs





NTNV-BLE_1M-Ant1-2440-PASS





NTNV-BLE_1M-Ant1-2480-PASS

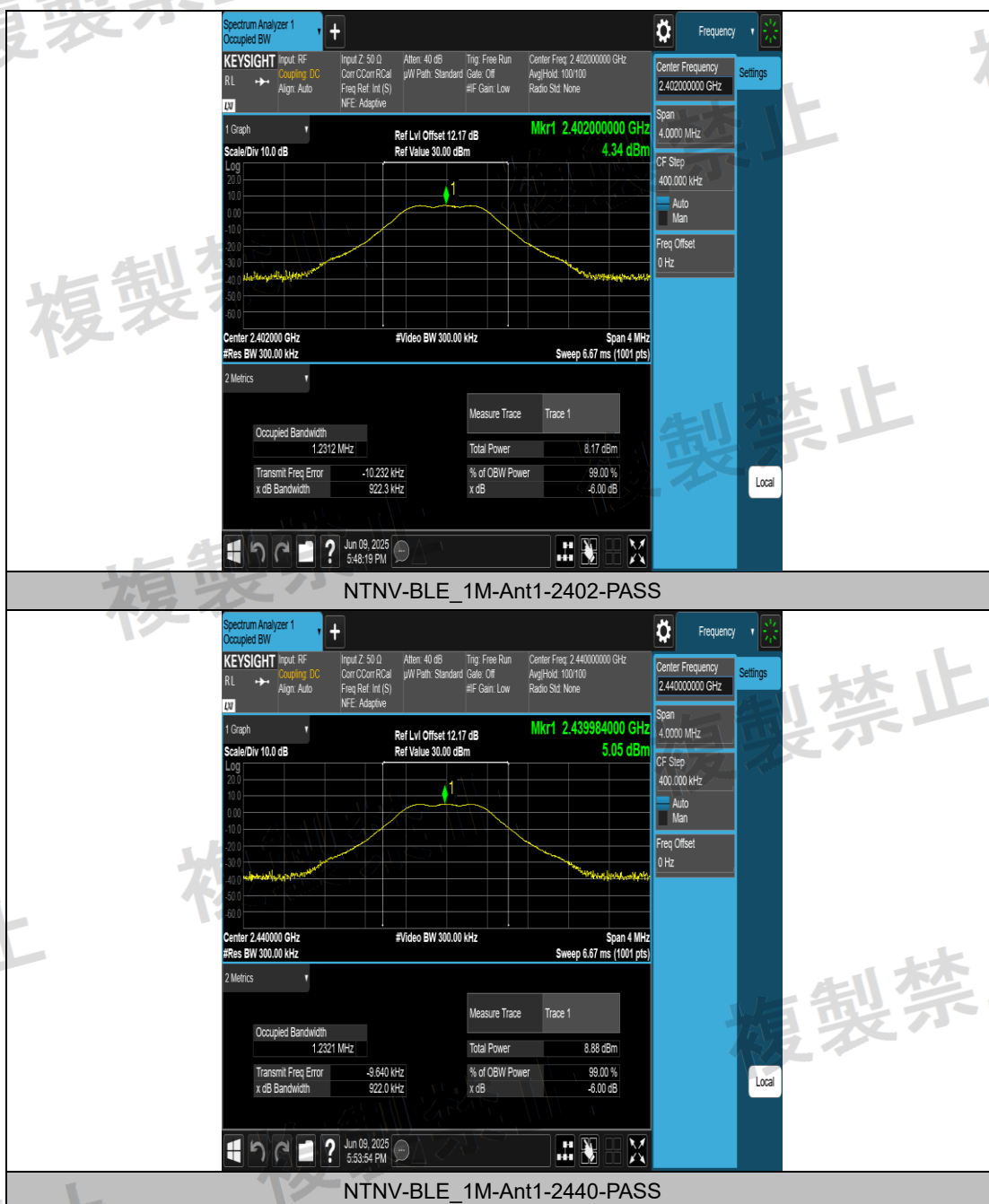


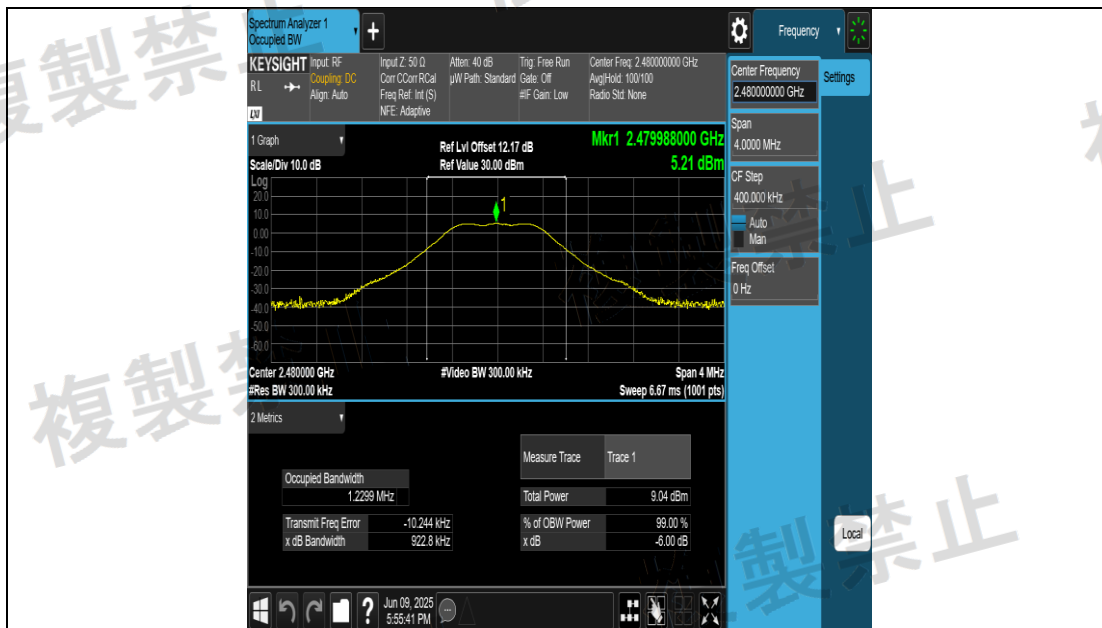
Appendix C: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.231	≤26	PASS
NTNV	BLE_1M	Ant1	2440	1.232	≤26	PASS
NTNV	BLE_1M	Ant1	2480	1.230	≤26	PASS

Test Graphs

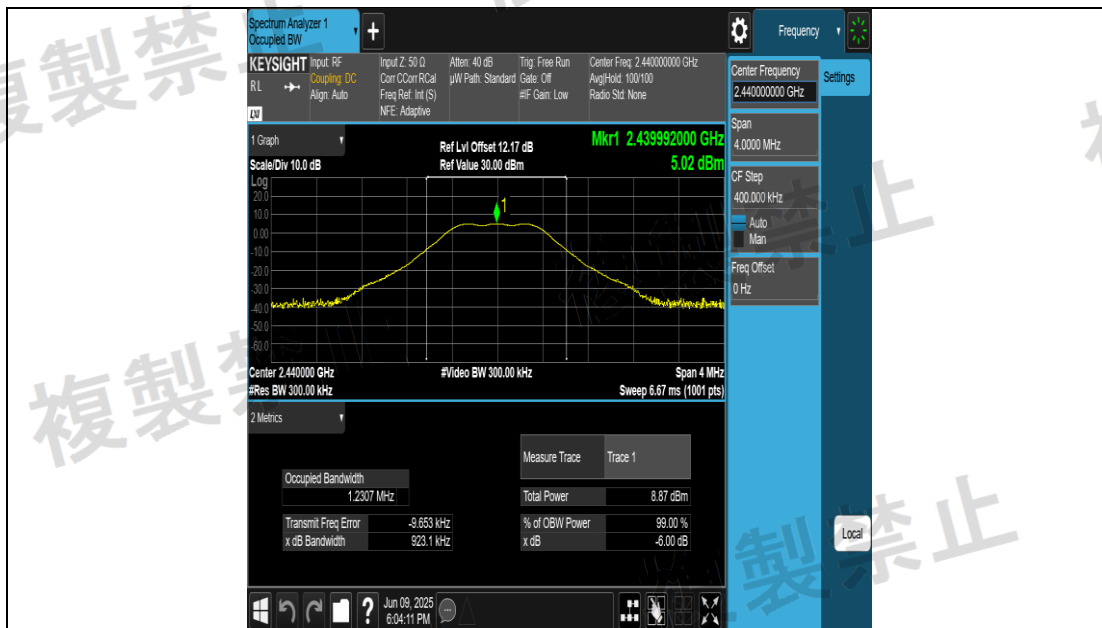




NTNV-BLE_1M-Ant1-2480-PASS



NTNV-BLE_500K-Ant1-2402-PASS



NTNV-BLE_500K-Ant1-2440-PASS



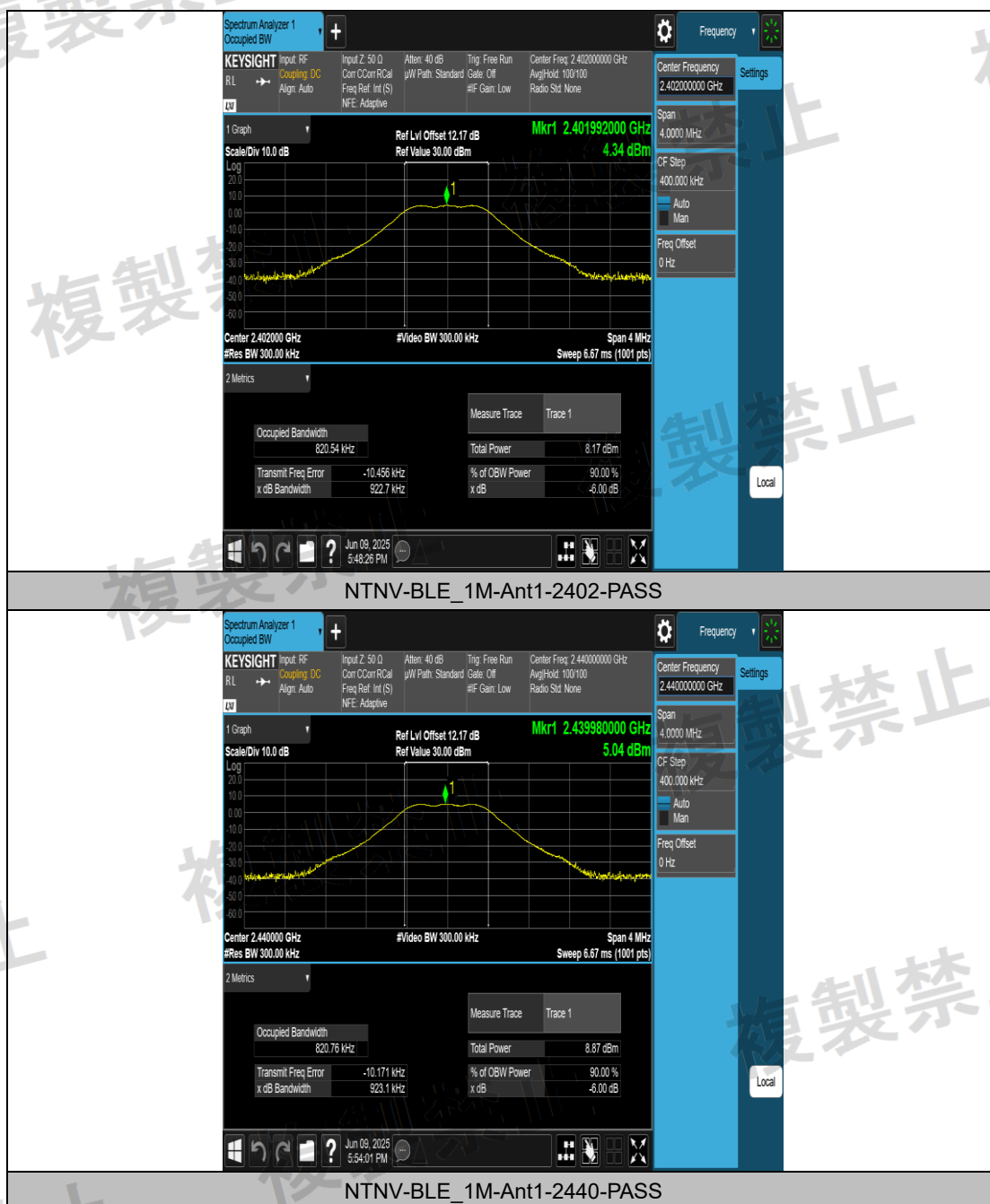
NTNV-BLE_500K-Ant1-2480-PASS

Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.821	≥0.5	PASS
NTNV	BLE_1M	Ant1	2440	0.821	≥0.5	PASS
NTNV	BLE_1M	Ant1	2480	0.821	≥0.5	PASS

Test Graphs





Appendix E: Spurious Emission of TX

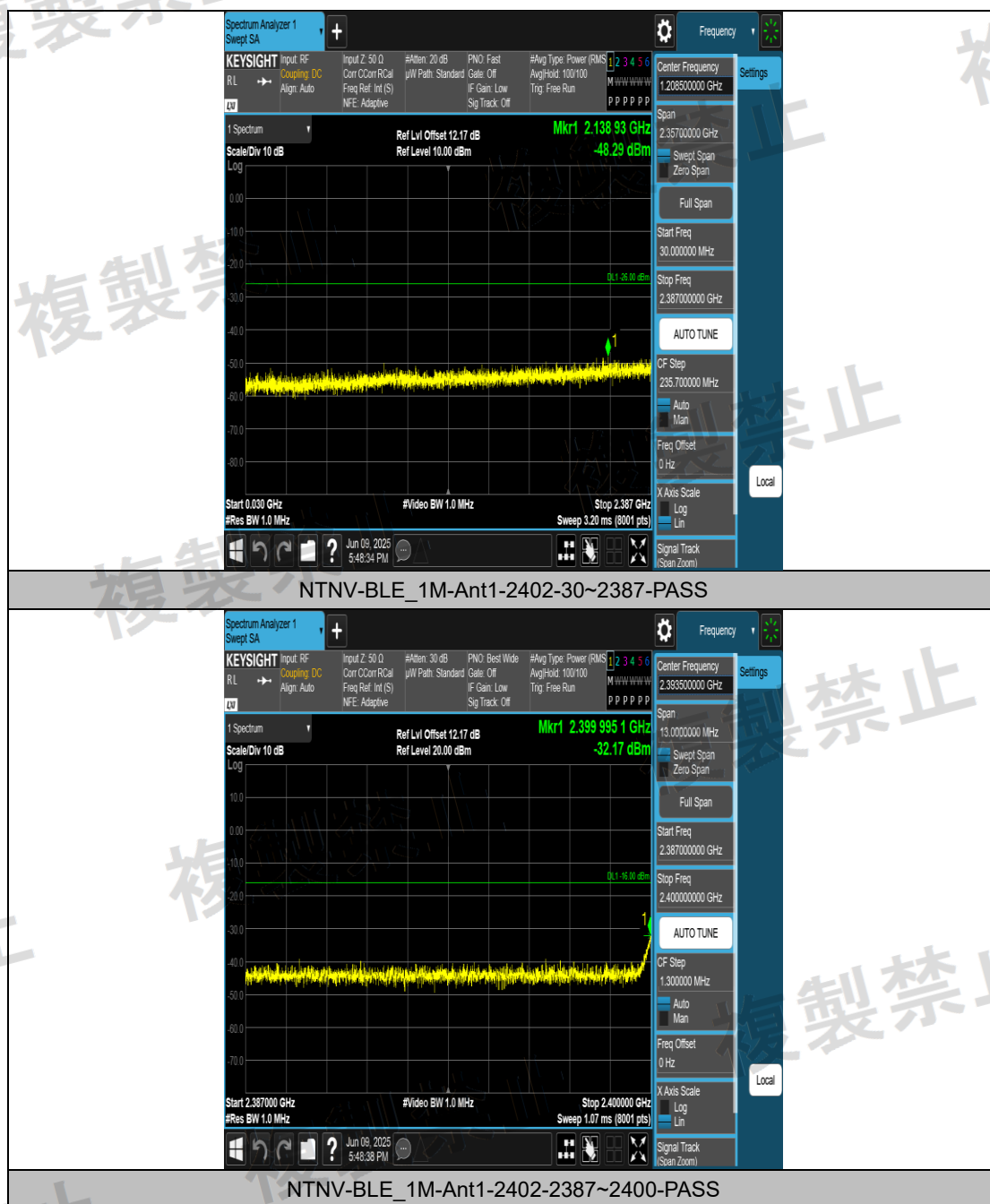
Test Result

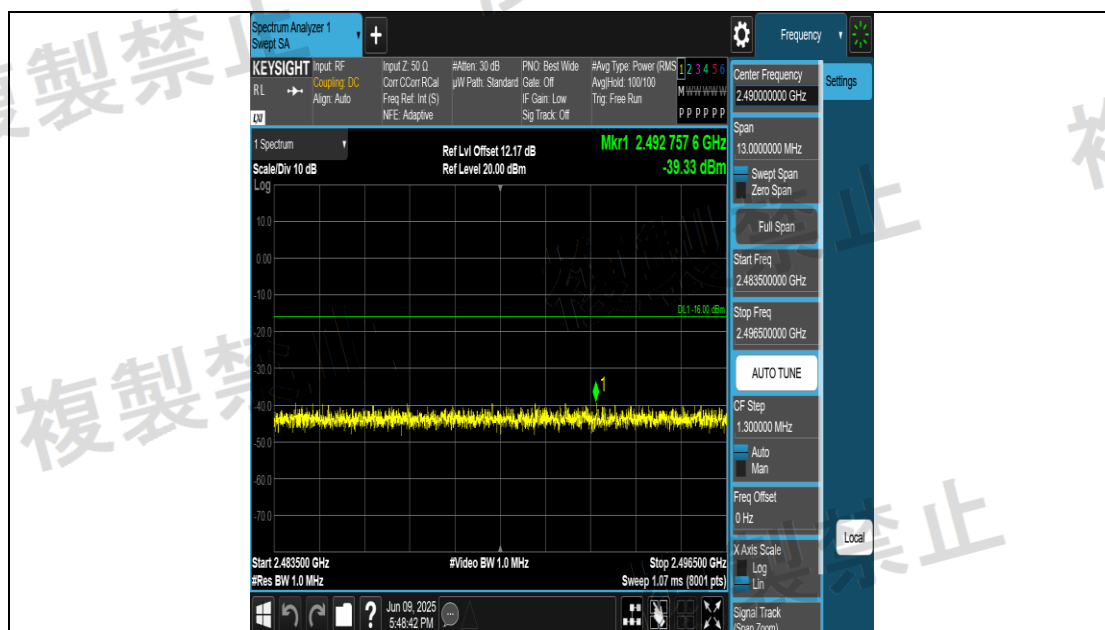
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~2387	-46.79	≤-26	0.020941	≤2.5	PASS
NTNV	BLE_1M	Ant1	2402	2387~2400	-30.67	≤-16	0.857038	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2483.5~2496.5	-37.83	≤-16	0.164816	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2496.5~13000	-41.72	≤-26	0.067298	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	30~2387	-46.12	≤-26	0.024434	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	2387~2400	-37.36	≤-16	0.183654	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2483.5~2496.5	-37.33	≤-16	0.184927	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2496.5~13000	-41.48	≤-26	0.071121	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	30~2387	-45.55	≤-26	0.027861	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	2387~2400	-37.8	≤-16	0.165959	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2483.5~2496.5	-37.09	≤-16	0.195434	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2496.5~13000	-41.18	≤-26	0.076208	≤2.5	PASS

Test Result_Step2

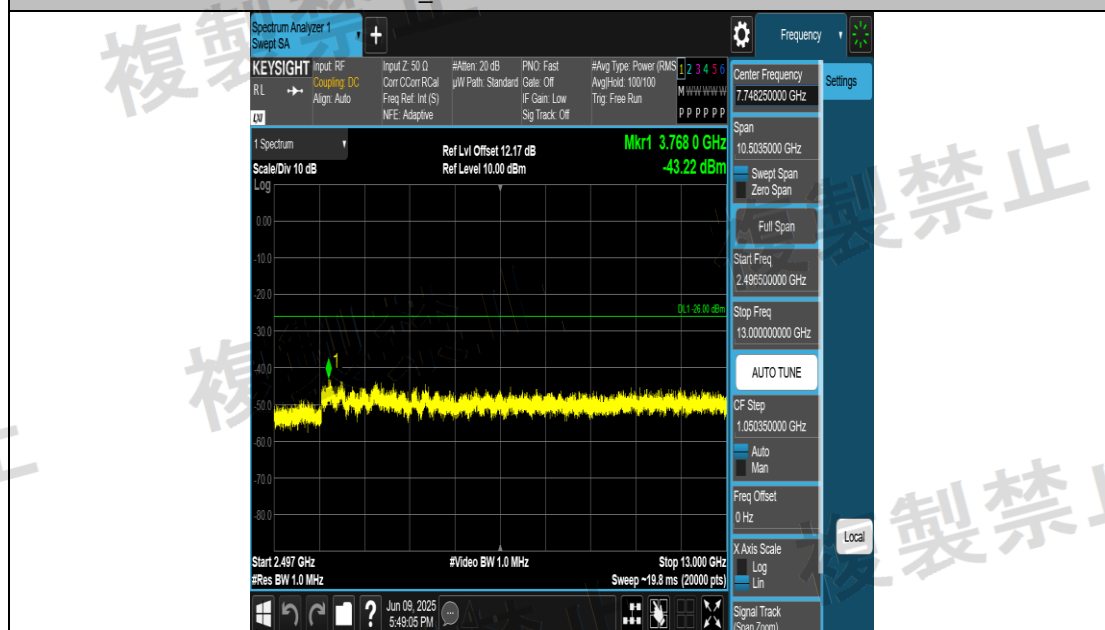
TestCondition	TestMode	Antenna	Freq(MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
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Test Graphs





NTNV-BLE_1M-Ant1-2402-2483.5~2496.5-PASS



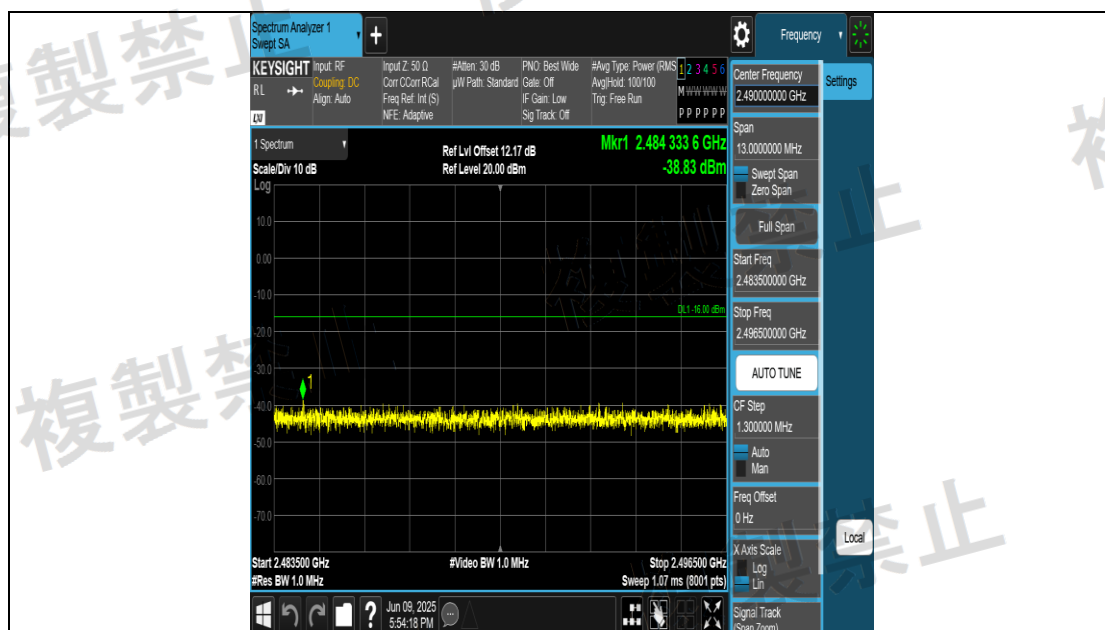
NTNV-BLE_1M-Ant1-2402-2496.5~13000-PASS



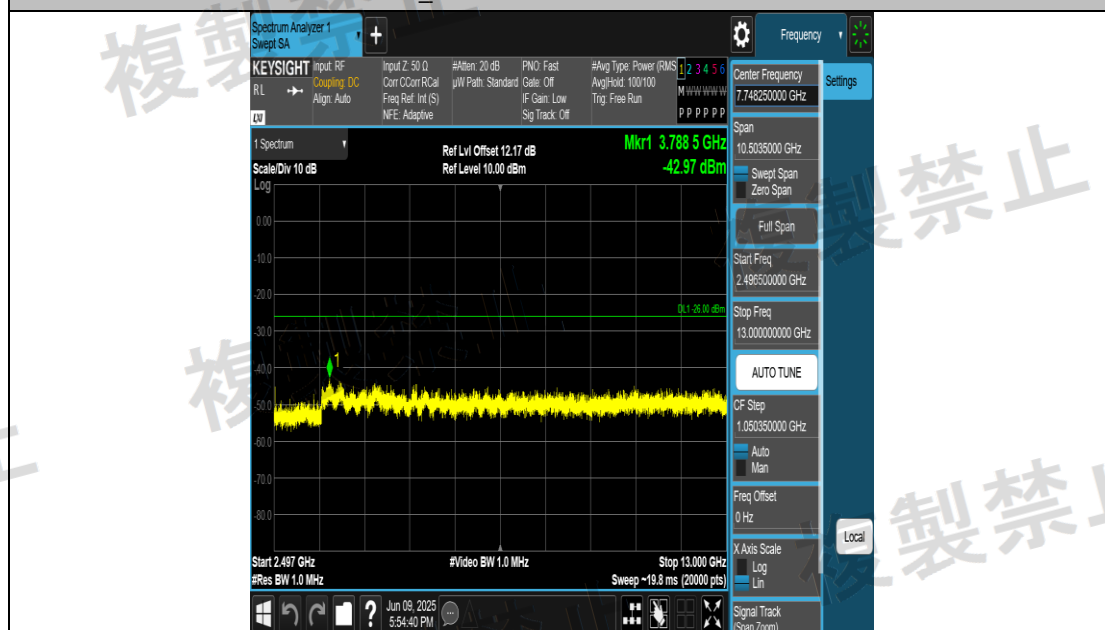
NTNV-BLE_1M-Ant1-2440-30~2387-PASS



NTNV-BLE_1M-Ant1-2440-2387~2400-PASS



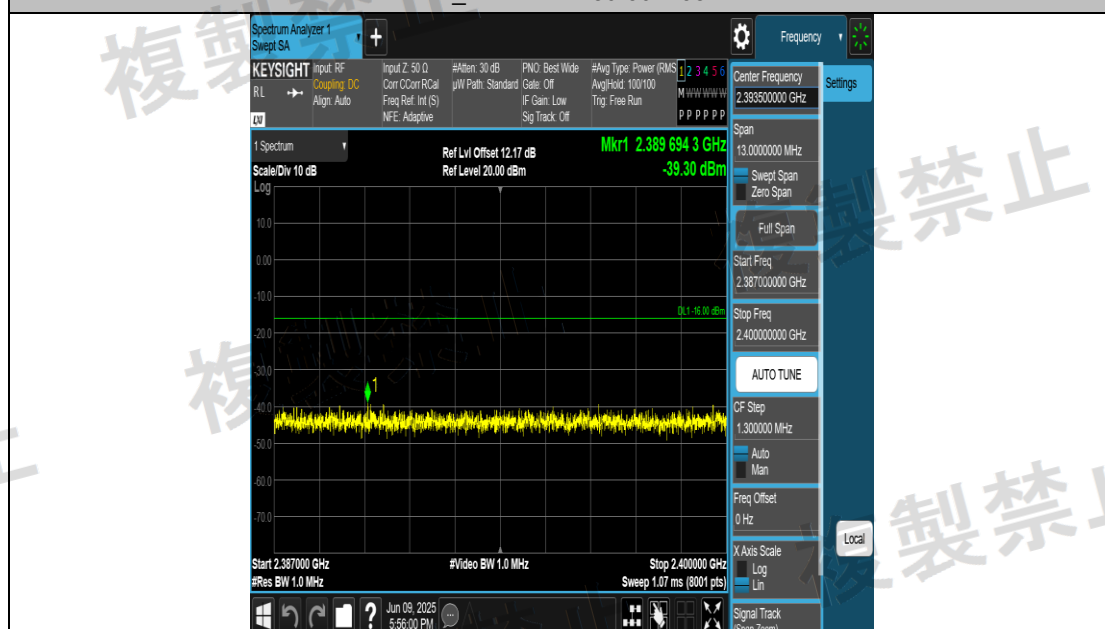
NTNV-BLE_1M-Ant1-2440-2483.5~2496.5-PASS



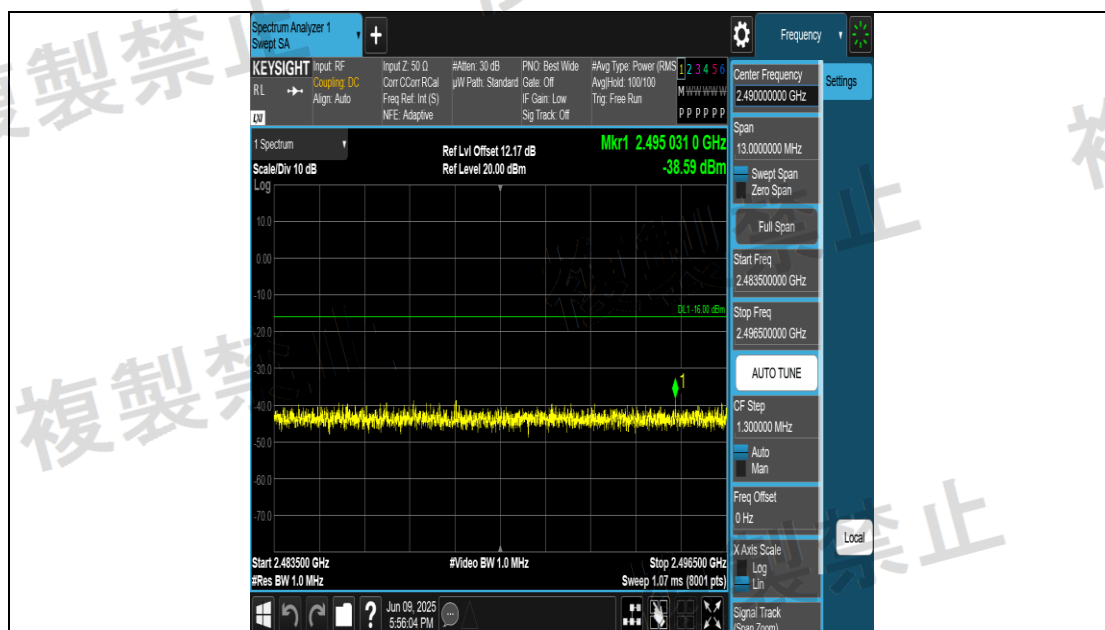
NTNV-BLE_1M-Ant1-2440-2496.5~13000-PASS



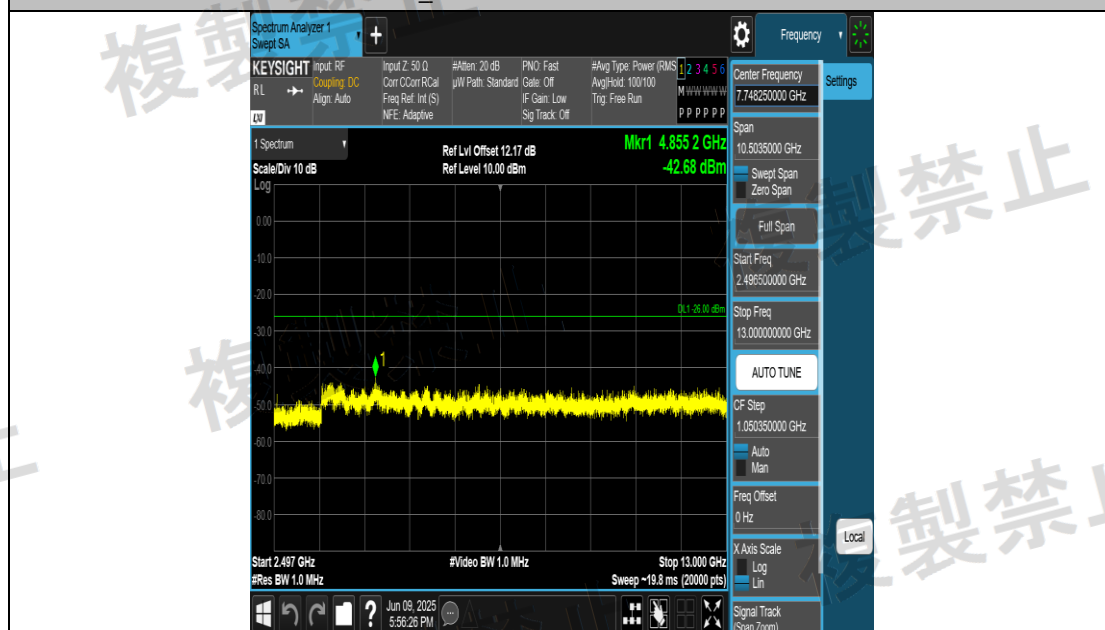
NTNV-BLE_1M-Ant1-2480-30~2387-PASS



NTNV-BLE_1M-Ant1-2480-2387~2400-PASS



NTNV-BLE_1M-Ant1-2480-2483.5~2496.5-PASS



NTNV-BLE_1M-Ant1-2480-2496.5~13000-PASS

Test Graphs_Step2

Appendix F: Spurious Emission of RX

Test Result

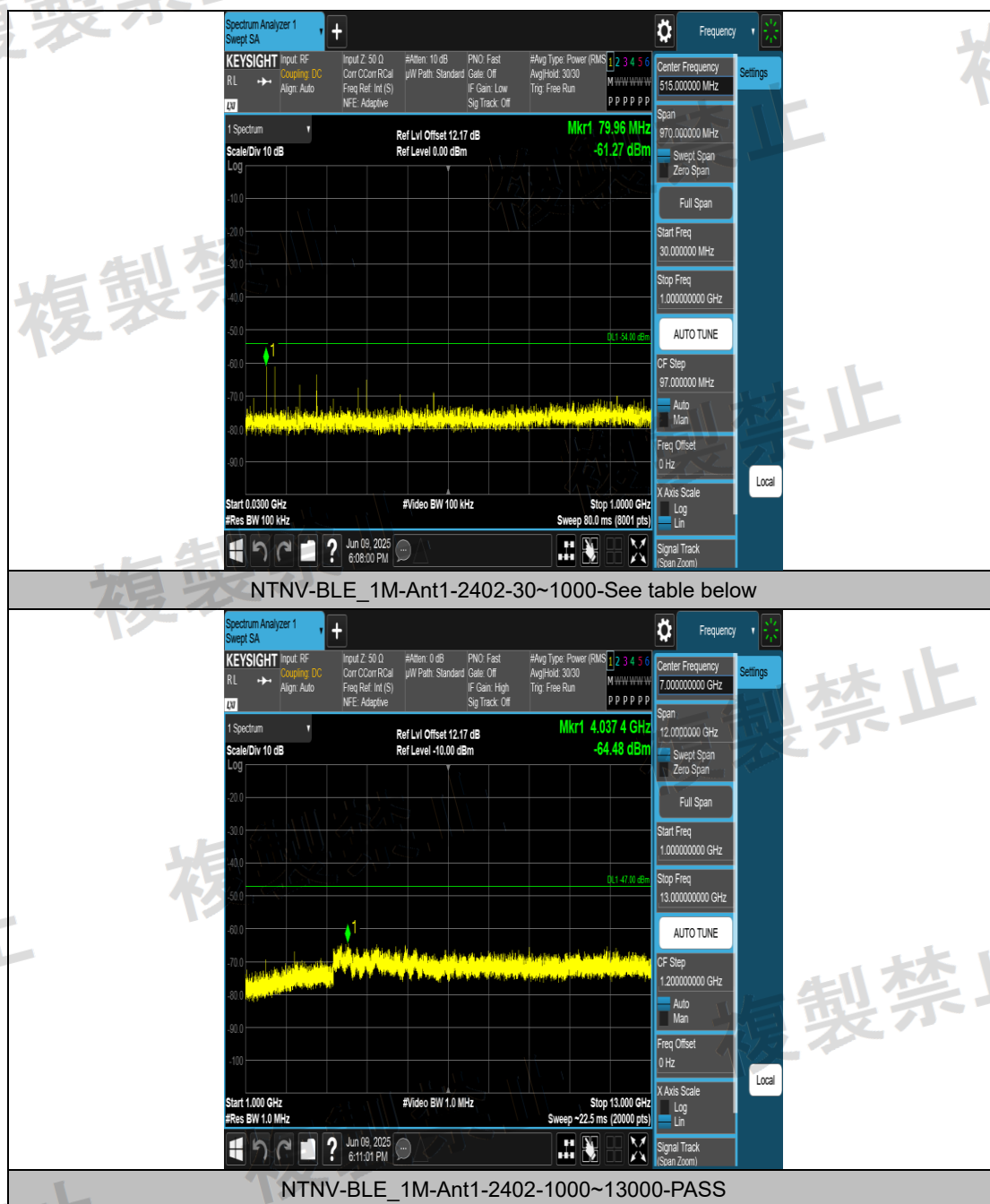
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-61.27	≤-54	0.7464 5	≤4	See table below
NTNV	BLE_1M	Ant1	2402	1000~13000	-64.48	≤-47	0.3564 5	≤20	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	-61.09	≤-54	0.7780 4	≤4	See table below
NTNV	BLE_1M	Ant1	2440	1000~13000	-60.28	≤-47	0.9375 6	≤20	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	-61.11	≤-54	0.7744 6	≤4	See table below
NTNV	BLE_1M	Ant1	2480	1000~13000	-48.94	≤-47	12.764 39	≤20	See table below

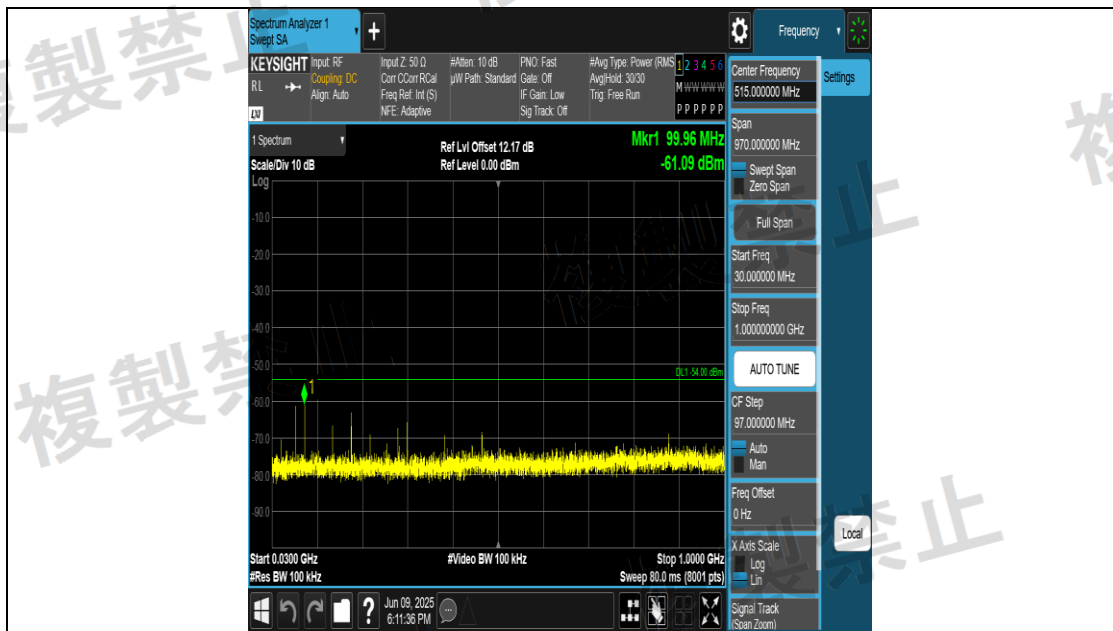
Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	79.96	-62.00	≤-54	0.6309 6	≤4	PASS
NTNV	BLE_1M	Ant1	2402	99.96	-62.10	≤-54	0.6166 0	≤4	PASS
NTNV	BLE_1M	Ant1	2402	199.99	-63.94	≤-54	0.4036 5	≤4	PASS
NTNV	BLE_1M	Ant1	2440	79.96	-62.03	≤-54	0.6266 1	≤4	PASS
NTNV	BLE_1M	Ant1	2440	99.96	-62.14	≤-54	0.6109 4	≤4	PASS
NTNV	BLE_1M	Ant1	2440	199.99	-63.93	≤-54	0.4045 8	≤4	PASS
NTNV	BLE_1M	Ant1	2480	79.96	-62.04	≤-54	0.6251 7	≤4	PASS

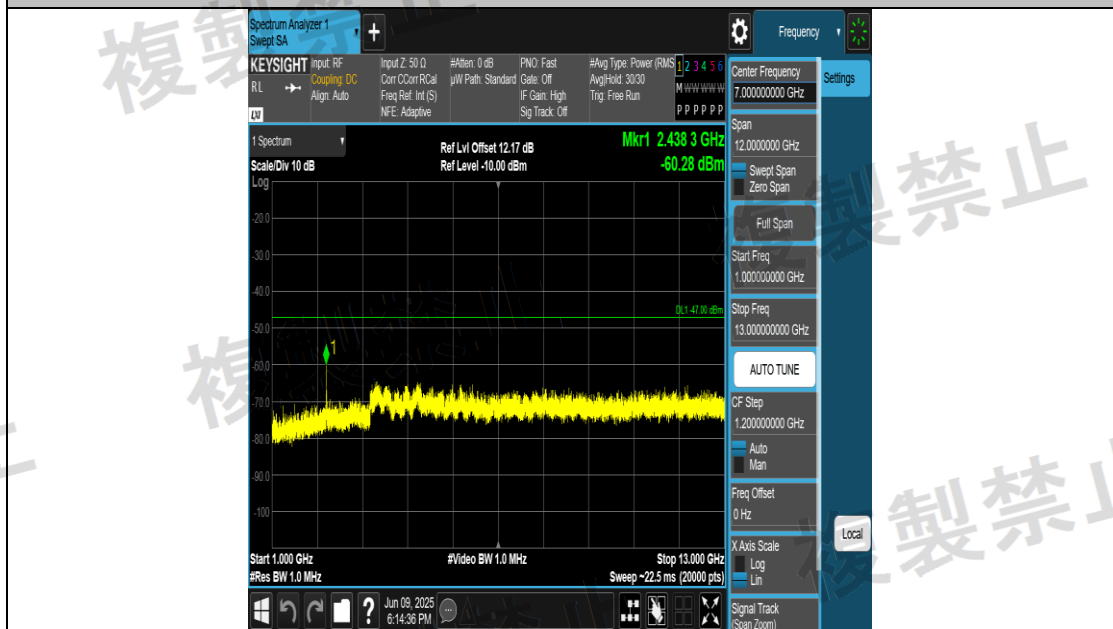
NTNV	BLE_1M	Ant1	2480	99.96	-62.17	≤-54	0.6067 4	≤4	PASS
NTNV	BLE_1M	Ant1	2480	199.99	-63.92	≤-54	0.4055 1	≤4	PASS
NTNV	BLE_1M	Ant1	2480	3405.52	-56.17	≤-47	2.4154 6	≤20	PASS
NTNV	BLE_1M	Ant1	2480	3495.52	-83.28	≤-47	0.0047 0	≤20	PASS

Test Graphs

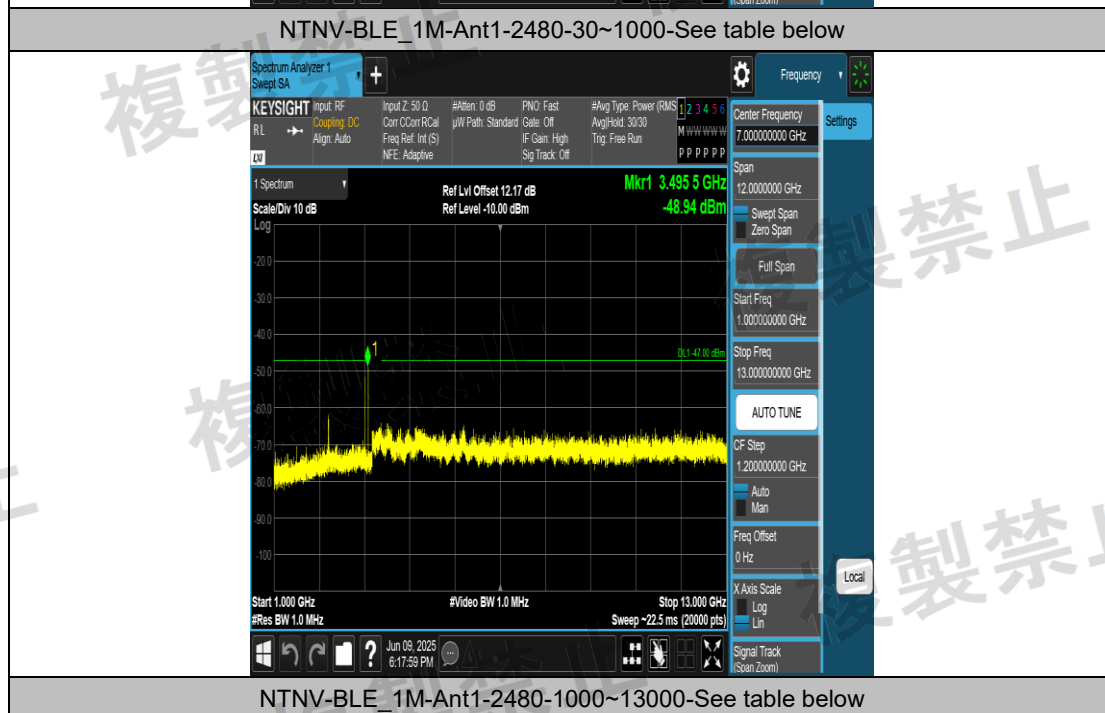
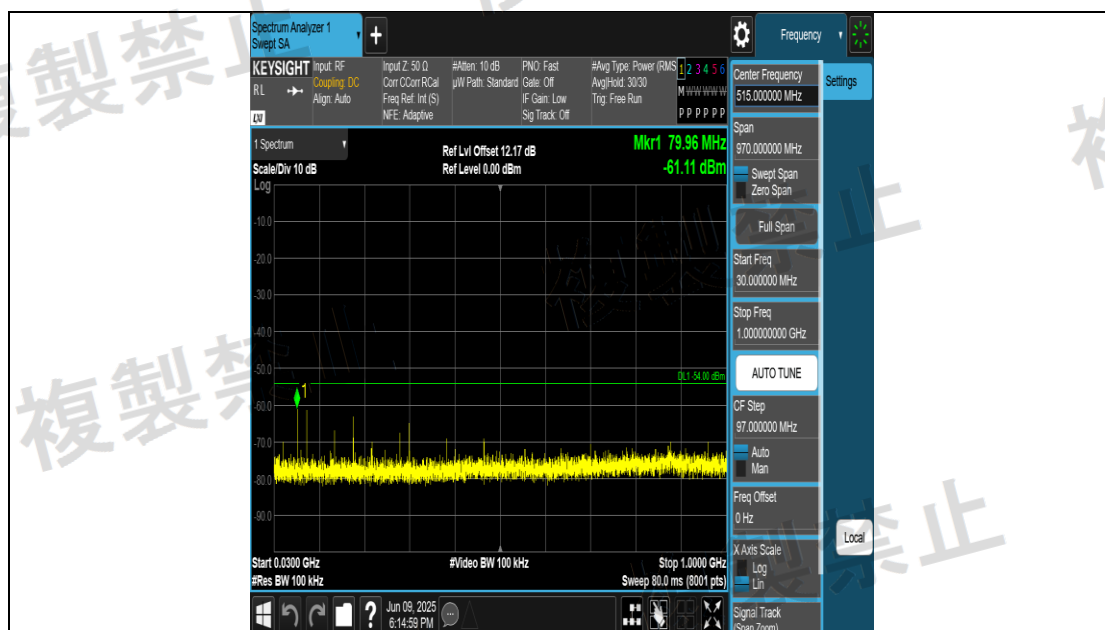




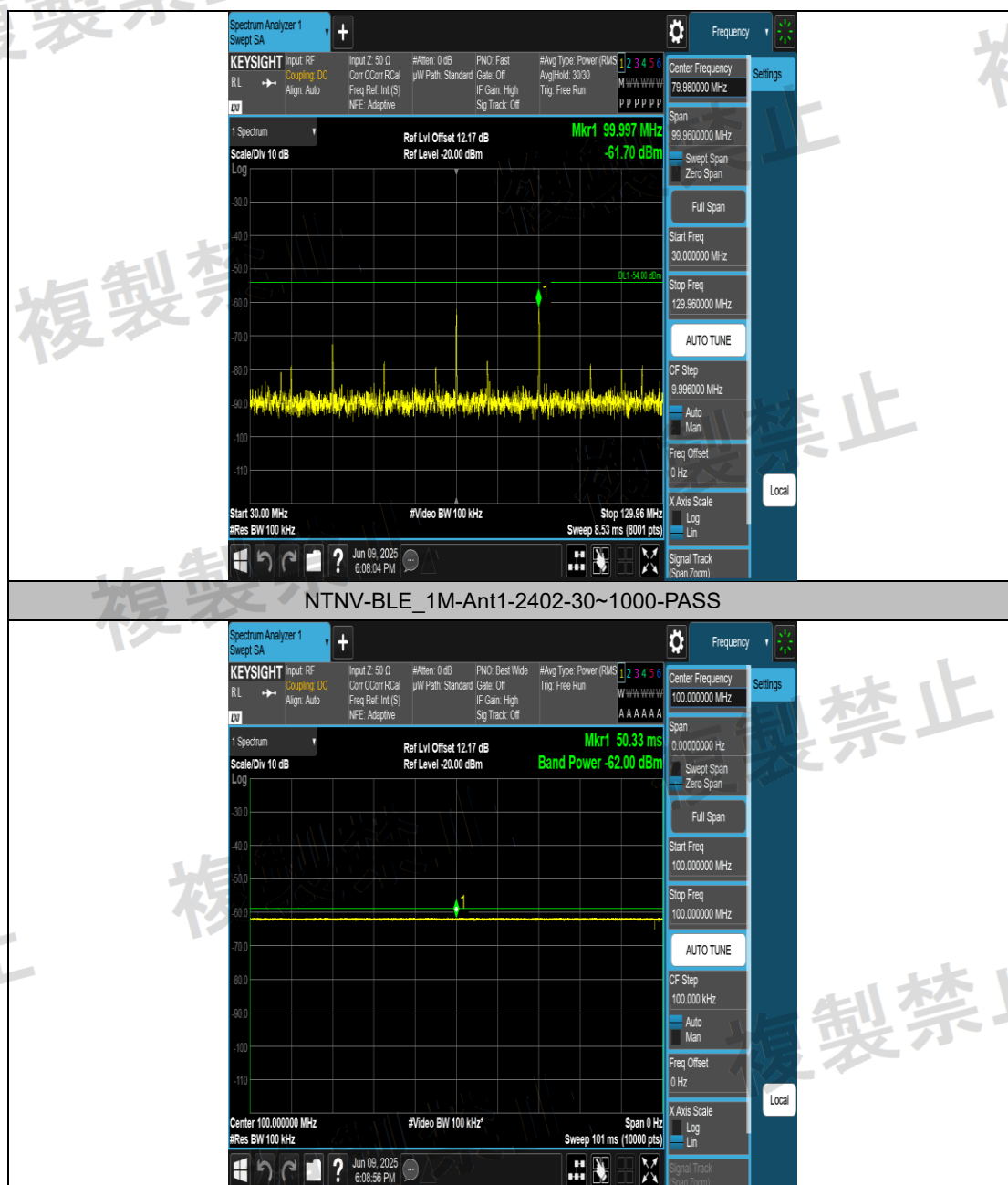
NTNV-BLE_1M-Ant1-2440-30~1000-See table below

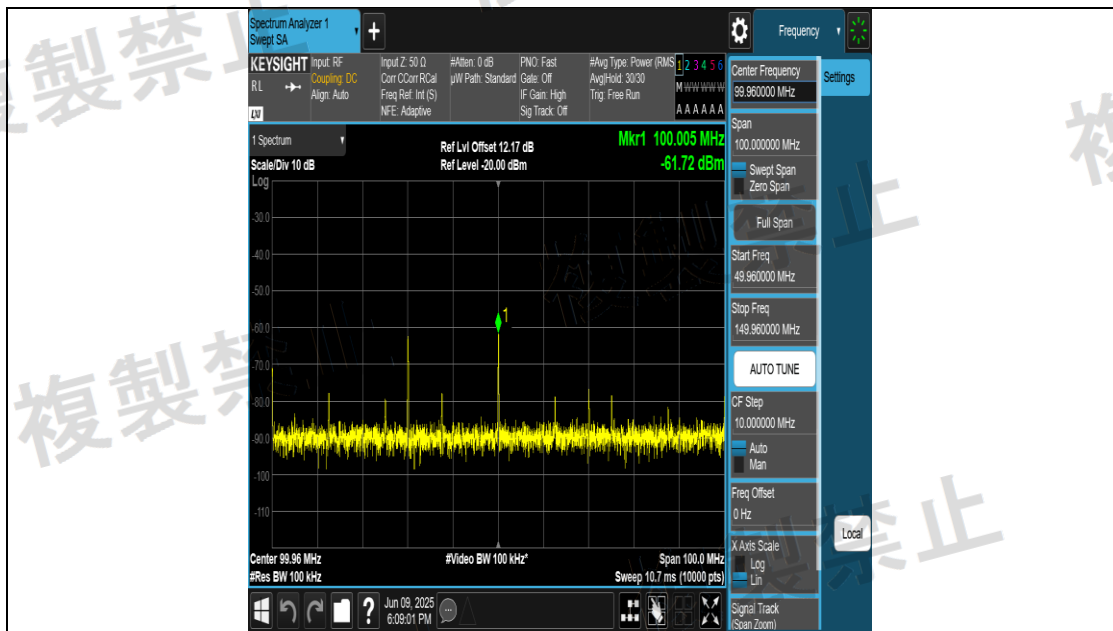


NTNV-BLE_1M-Ant1-2440-1000~13000-PASS



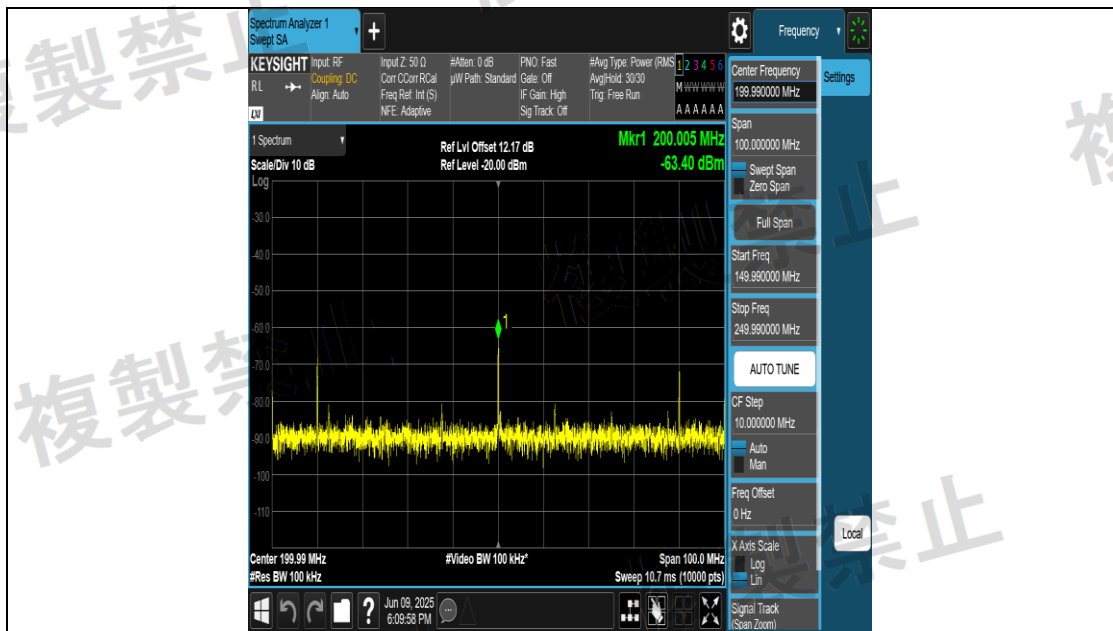
Test Graphs_Step2





NTNV-BLE_1M-Ant1-2402-30~1000-PASS





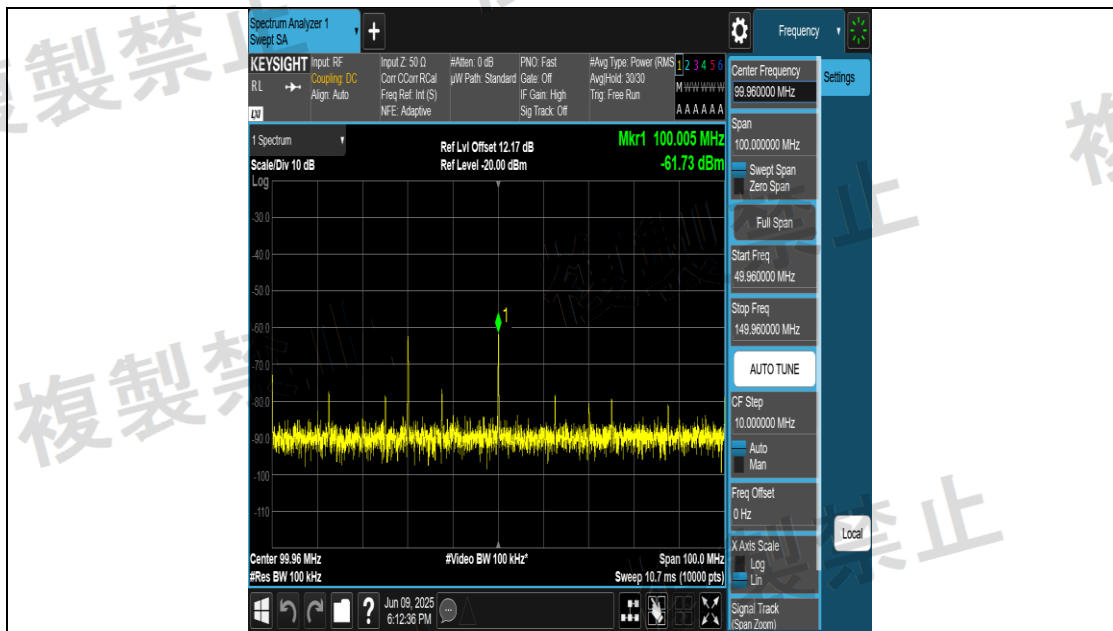
NTNV-BLE_1M-Ant1-2402-30~1000-PASS





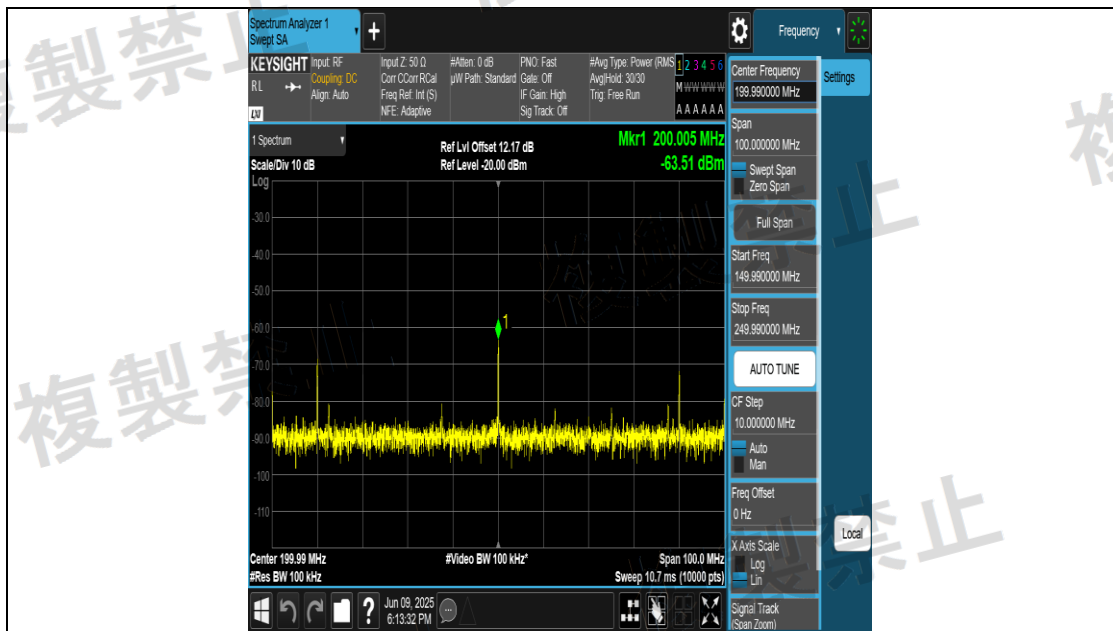
NTNV-BLE_1M-Ant1-2440-30~1000-PASS





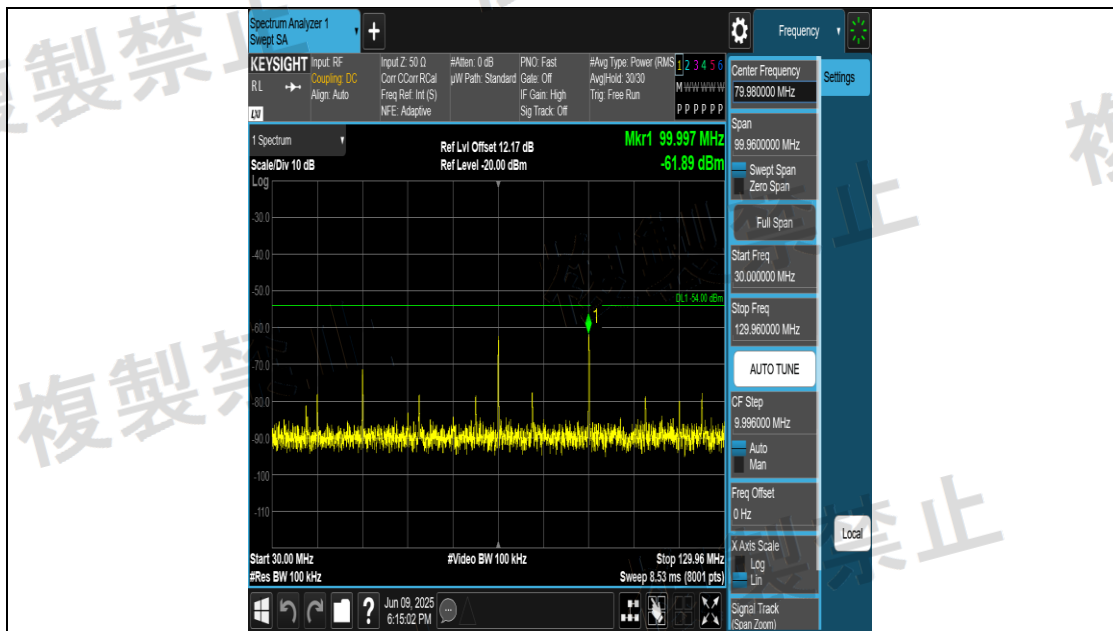
NTNV-BLE_1M-Ant1-2440-30~1000-PASS





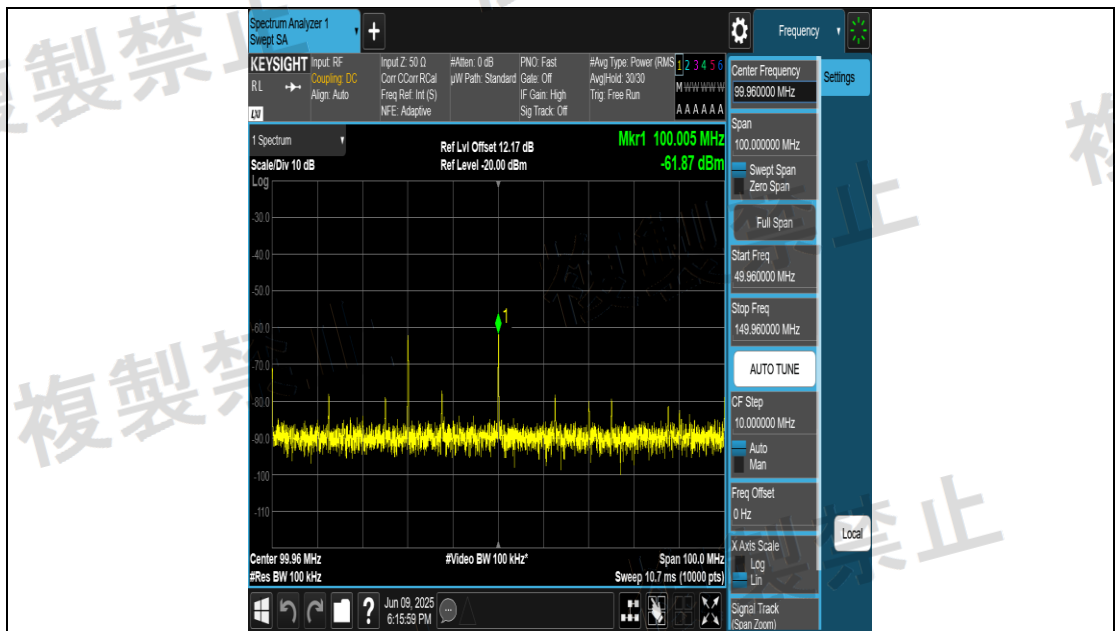
NTNV-BLE_1M-Ant1-2440-30~1000-PASS





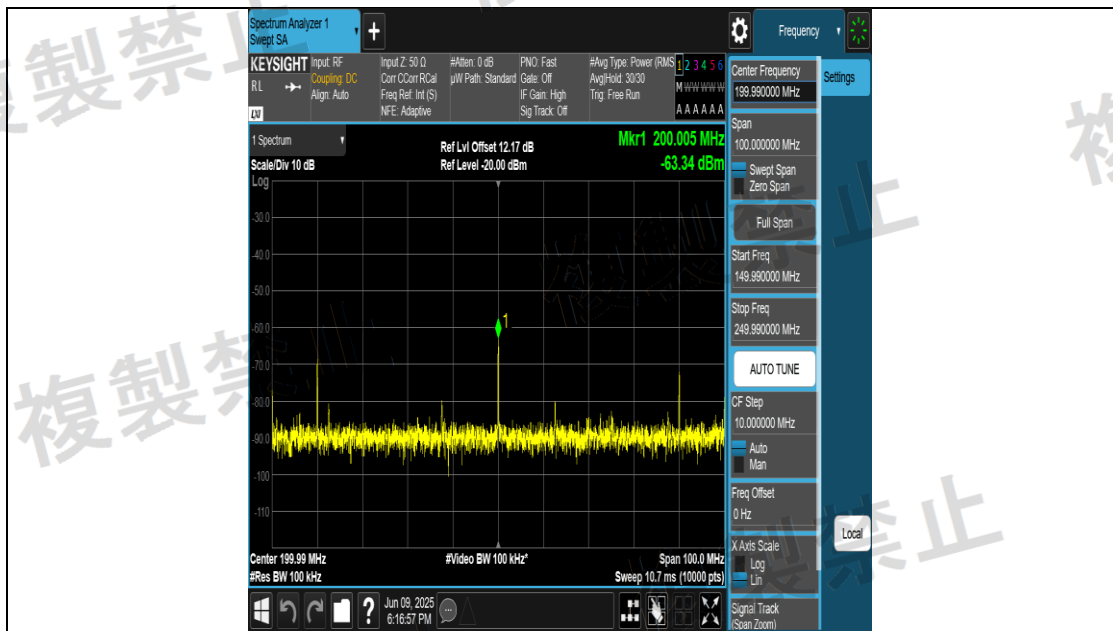
NTNV-BLE_1M-Ant1-2480-30~1000-PASS





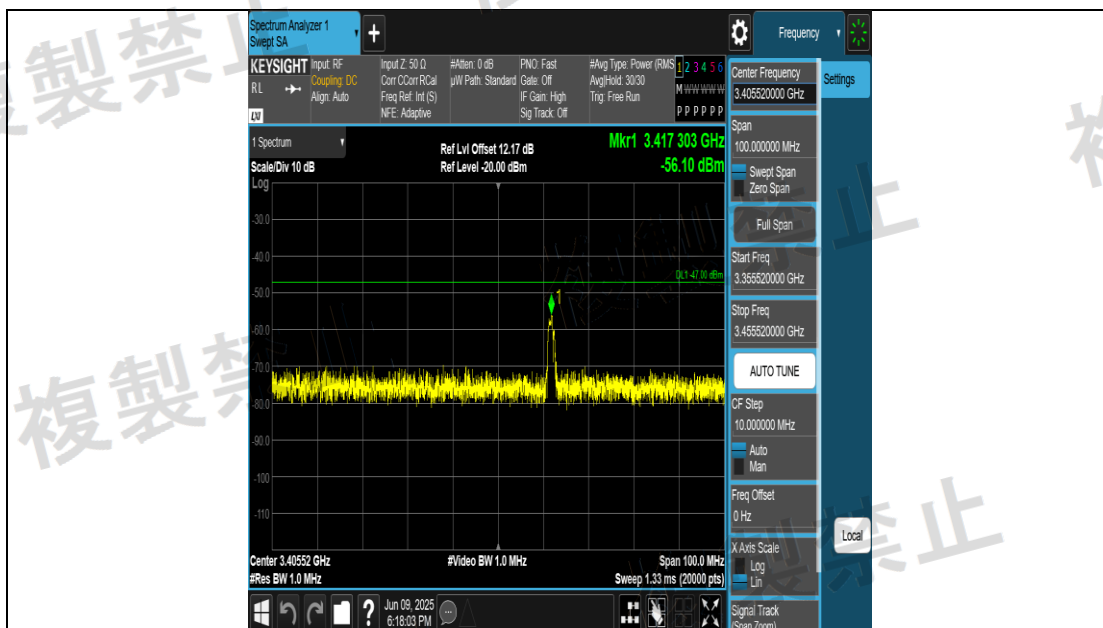
NTNV-BLE_1M-Ant1-2480-30~1000-PASS





NTNV-BLE_1M-Ant1-2480-30~1000-PASS





NTNV-BLE_1M-Ant1-2480-1000~13000-PASS

